

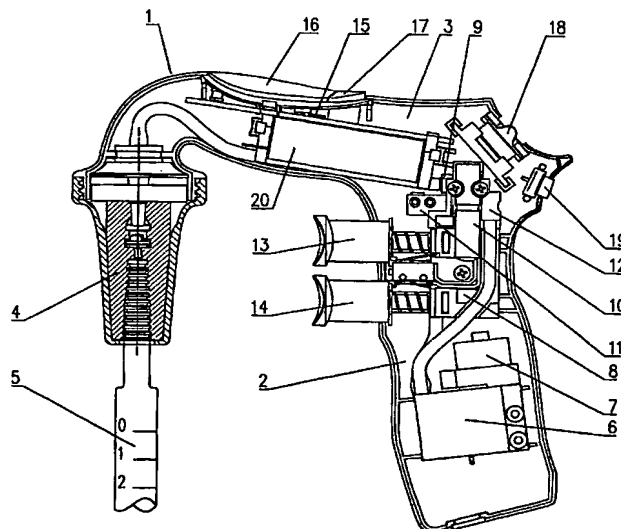
(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau(43) International Publication Date
29 July 2004 (29.07.2004)

PCT

(10) International Publication Number
WO 2004/062805 A1

- (51) International Patent Classification⁷: **B01L 3/02**, G01N 1/14
- (21) International Application Number: PCT/PL2003/000035
- (22) International Filing Date: 8 April 2003 (08.04.2003)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data: P.358260 14 January 2003 (14.01.2003) PL
- (71) Applicant (for all designated States except US): **PZ HTL SPÓŁKA AKCYJNA** [PL/PL]; ul. Daniszewska 4, PL-03-230 Warszawa (PL).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): **CZERNECKI, Andrzej** [PL/PL]; ul. Zakopianska 10, PL-03-934 Warszawa (PL). **WYSZOGRODZKI, Wojciech** [PL/PL]; ul. Ostrońska 56 X, PL-03-289 Warszawa (PL). **JANKOWSKI, Andrzej** [PL/PL]; ul. Sucharskiego 4 m. 74, PL-01-390 Warszawa (PL). **URBAN, Piotr** [PL/PL]; ul. Pirenejka 1 m. 62, PL-01-493 Warszawa (PL).
- (54) Title: METHOD OF DISPENSING LIQUID IN A PIPETTING DEVICE AND THE PIPETTING DEVICE
- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Published:
— with international search report
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.



(57) Abstract: In the method of dispensing liquid according to the invention, when liquid is aspirated by the pump to the pipette, the required size of dose of the liquid is dispensed from the pipette in proportion to the atmospheric air fed thereto through a valve or a set of valves connected to the pipette, whereas the amount of supplied atmospheric air is processor programmed by the determination of time and/or flow rate and/or damping of the supply of atmospheric air into the pipette. Pipetting device according to the invention comprises a housing with a handle (3) for mounting the pipette (4), whereas in the housing, an air pump (6) is located, connected to the pipette (5), and a processor (15) to control the operation of the device. The pipetting device comprises also a set of valves (10) for processor (15) controlled atmospheric air flow during dispensing liquid, whereas the set of valves (10) is connected to the pipette (5).